

SEQUENCE LISTING

<110> Pharmacia and Upjohn

<120> Crystallization and Structure Determination of
Staphylococcus Aureus Nad Synthetase

<130> 268.63150101

<140> Unassigned

<141> 2001-01-30

<150> 60/179,261

<151> 2000-01-31

<160> 2

<170> PatentIn Ver. 2.1

<210> 1

<211> 282

<212> PRT

<213> S.aureus

<400> 1

Met Gly Ser Lys Leu Gln Asp Val Ile Val Gln Glu Met Lys Val Lys
1 5 10 15

Lys Arg Ile Asp Ser Ala Glu Glu Ile Met Glu Leu Lys Gln Phe Ile
20 25 30

Lys Asn Tyr Val Gln Ser His Ser Phe Ile Lys Ser Leu Val Leu Gly
35 40 45

Ile Ser Gly Gly Gln Asp Ser Thr Leu Val Gly Lys Leu Val Gln Met
50 55 60

Ser Val Asn Glu Leu Arg Glu Glu Gly Ile Asp Cys Thr Phe Ile Ala
65 70 75 80

Val Lys Leu Pro Tyr Gly Val Gln Lys Asp Ala Asp Glu Val Glu Gln
85 90 95

Ala Leu Arg Phe Ile Glu Pro Asp Glu Ile Val Thr Val Asn Ile Lys
100 105 110

Pro Ala Val Asp Gln Ser Val Gln Ser Leu Lys Glu Ala Gly Ile Val
115 120 125

Leu Thr Asp Phe Gln Lys Gly Asn Glu Lys Ala Arg Glu Arg Met Lys
130 135 140

Val Gln Phe Ser Ile Ala Ser Asn Arg Gln Gly Ile Val Val Gly Thr
145 150 155 160

Asp His Ser Ala Glu Asn Ile Thr Gly Phe Tyr Thr Lys Tyr Gly Asp
165 170 175

Gly Ala Ala Asp Ile Ala Pro Ile Phe Gly Leu Asn Lys Arg Gln Gly
180 185 190

Arg Gln Leu Leu Ala Tyr Leu Gly Ala Pro Lys Glu Leu Tyr Glu Lys
195 200 205

Thr Pro Thr Ala Asp Leu Glu Asp Asp Lys Pro Gln Leu Pro Asp Glu
210 215 220

Asp Ala Leu Gly Val Thr Tyr Glu Ala Ile Asp Asn Tyr Leu Glu Gly
225 230 235 240

Lys Pro Val Thr Pro Glu Glu Gln Lys Val Ile Glu Asn His Tyr Ile
245 250 255

Arg Asn Ala His Lys Arg Glu Leu Ala Tyr Thr Arg Tyr Thr Trp Pro
260 265 270

Lys Ser Arg Ser His His His His His His
275 280

<210> 2

<211> 271

<212> PRT

<213> B.subtilis

<400> 2

Ser Met Gln Glu Lys Ile Met Arg Glu Leu His Val Lys Pro Ser Ile
1 5 10 15

Asp Pro Lys Gln Glu Ile Glu Asp Arg Val Asn Phe Leu Lys Gln Tyr
20 25 30

Val Lys Lys Thr Gly Ala Lys Gly Phe Val Leu Gly Ile Ser Gly Gly
35 40 45

Gln Asp Ser Thr Leu Ala Gly Arg Leu Ala Gln Leu Ala Val Glu Ser

50

55

60

Ile Arg Glu Glu Gly Gly Asp Ala Gln Phe Ile Ala Val Arg Leu Pro
65 70 75 80

His Gly Thr Gln Gln Asp Glu Asp Asp Ala Gln Leu Ala Leu Lys Phe
85 90 95

Ile Lys Pro Asp Lys Ser Trp Lys Phe Asp Ile Lys Ser Thr Val Ser
100 105 110

Ala Phe Ser Asp Gln Tyr Gln Gln Glu Thr Gly Asp Gln Leu Thr Asp
115 120 125

Phe Asn Lys Gly Asn Val Lys Ala Arg Thr Arg Met Ile Ala Gln Tyr
130 135 140

Ala Ile Gly Gly Gln Glu Gly Leu Leu Val Leu Gly Thr Asp His Ala
145 150 155 160

Ala Glu Ala Val Thr Gly Phe Phe Thr Lys Tyr Gly Asp Gly Gly Ala
165 170 175

Asp Leu Leu Pro Leu Thr Gly Leu Thr Lys Arg Gln Gly Arg Thr Leu
180 185 190

Leu Lys Glu Leu Gly Ala Pro Glu Arg Leu Tyr Leu Lys Glu Pro Thr
195 200 205

Ala Asp Leu Leu Asp Glu Lys Pro Gln Gln Ser Asp Glu Thr Glu Leu
210 215 220

Gly Ile Ser Tyr Asp Glu Ile Asp Asp Tyr Leu Glu Gly Lys Glu Val
225 230 235 240

Ser Ala Lys Val Ser Glu Ala Leu Glu Lys Arg Tyr Ser Met Thr Glu
245 250 255

His Lys Arg Gln Val Pro Ala Ser Met Phe Asp Asp Trp Trp Lys
260 265 270